

ABSTRACT OF THE DISCLOSURE

A device and method for atomizing a liquid medium, including an electrically conductive nozzle body with an internal volume for holding the liquid medium, at least one nozzle opening as well as a high-voltage electrode arranged inside the internal volume coaxially to a longitudinal axis of the nozzle body. The high-voltage electrode is provided in the area of its greatest lateral expansion with a circumferential, sharp edge that extends at a small distance to the nozzle body in order to be able to bring about the electrostatic charging of the passing liquid medium. This construction enables the electrostatic atomization in a simple manner even for multi-hole nozzles, so that the electrostatic atomization also can be used in the field of gas turbine technology for improving the injection in the start-up and partial load range.